

Application No. 09/473,003  
Attorney Docket No. 15-IS-5283 (12517US01)

**AMENDMENTS TO THE CLAIMS**

Please amend the claims as follows:

1. (Currently amended) In a picture archiving and communication system (PACS), a method of processing raw image data at a PACS display workstation, the method comprising:

retrieving from a PACS database, using a PACS display workstation, raw image data, which has not been fully preprocessed according to a predetermined set of preprocessing functions, delivered from an imaging modality;

selecting from a PACS database, using the PACS display workstation, a first preprocessing function for the raw image data delivered from the imaging modality,

wherein said first preprocessing function is stored in said PACS database,  
said first preprocessing function differing from a preprocessing function inserted in  
or applied to said raw image data; and

processing said raw image data at the PACS display workstation by applying the first preprocessing function to the raw image data to create resultant image data.

2. (Original) The method of claim 1, wherein the step of retrieving raw image data further comprises retrieving frequency preprocessed raw image data.

Application No. 09/473,003  
Attorney Docket No. 15-IS-5283 (12517US01)

3. (Previously presented) The method of claim 1, wherein the step of retrieving raw image data further comprises retrieving contrast preprocessed raw image data.

4. (Original) The method of claim 2, wherein the step of selecting further comprises selecting a contrast preprocessing function.

5. (Original) The method of claim 3, wherein the step of selecting further comprises selecting a frequency preprocessing function.

6. (Original) The method of claim 4, wherein the step of selecting further comprises selecting a contrast preprocessing function characterized by at least one of a GT, GA, GC, and GS preprocessing parameter.

7. (Original) The method of claim 5, wherein the step of selecting further comprises selecting a frequency preprocessing function characterized by at least one of a RN, RE, and RT preprocessing parameter.

Application No. 09/473,003  
Attorney Docket No. 15-IS-5283 (12517US01)

8. (Original) The method of claim 1, further comprising the step of applying an image processing function to the resultant image data to create processed resultant image data.

9. (Original) The method of claim 8, further comprising the step of displaying the processed resultant image data.

10. (Original) The method of claim 1, further comprising the step of storing the resultant image data in the PACS database for future retrieval.

11. (Currently amended) In a picture archiving and communication system (PACS), a PACS display workstation comprising:

a processing circuit;  
a PACS network interface coupled to the processing circuit; and  
a software memory coupled to the processing circuit, the software memory storing instructions for:

Application No. 09/473,003  
Attorney Docket No. 15-IS-5283 (12517US01)

retrieving from a PACS database raw image data delivered from an imaging modality;

selecting from a PACS database a first preprocessing function for the raw image data delivered from the imaging modality,

wherein said first preprocessing function is stored in said PACS database, said first preprocessing function differing from a preprocessing function inserted in or applied to said raw image data; and

processing said raw image data at the PACS display workstation by applying the first preprocessing function to the raw image data to create resultant image data.

12. (Original) The PACS display workstation of claim 11, wherein the raw image data corresponds to an anatomical region, and wherein the preprocessing function is selected based on the anatomical region.

13. (Original) The PACS display workstation of claim 11, wherein the raw image data is frequency processed raw image data.

Application No. 09/473,003  
Attorney Docket No. 15-IS-5283 (12517US01)

14. (Original) The PACS display workstation of claim 11, wherein the raw image data is contrast preprocessed raw image data.

15. (Original) The PACS display workstation of claim 13, wherein the preprocessing function is a contrast preprocessing function.

16. (Original) The PACS display workstation of claim 14, wherein the preprocessing function is a frequency preprocessing function.

17. (Original) The PACS display workstation of claim 15, wherein the contrast preprocessing function characterized by at least one of a GT, GA, GC, and GS preprocessing parameter.

18. (Original) The PACS display workstation of claim 16, wherein the frequency preprocessing function characterized by at least one of a RN, RE, and RT preprocessing parameter.

Application No. 09/473,003  
Attorney Docket No. 15-IS-5283 (12517US01)

19. (Original) The PACS display workstation of claim 11, wherein the software memory further comprises instructions for applying an image processing function to the resultant image data.

20. (Original) The PACS display workstation of claim 11, wherein the software memory further comprises instructions for storing the resultant image data in the PACS database for future retrieval.

21. (Currently amended) A medical data network comprising:  
an image modality;  
an image acquisition workstation;  
a PACS network interfaced to the image acquisition workstation, the PACS network comprising a networked PACS image database, a PACS display workstation, and a preprocessing database, and wherein the PACS display workstation comprises:

a processing circuit;  
a PACS network interface coupled to the processing circuit; and  
a software memory coupled to the processing circuit, the software memory storing instructions for:

retrieving from a PACS database raw image data delivered from an imaging modality;

Application No. 09/473,003  
Attorney Docket No. 15-IS-5283 (12517US01)

selecting from a PACS database a first preprocessing function for  
the raw image data delivered from the imaging modality,

wherein said first preprocessing function is stored in said  
PACS database, said first preprocessing function differing from a  
preprocessing function inserted in or applied to said raw image data;  
and

processing said raw image data at the PACS display workstation  
by applying the first preprocessing function to the raw image data to create  
resultant image data.

22. (Original) The medical data network of claim 21, wherein the first  
preprocessing function is a contrast preprocessing functions.

23. (Original) The medical data network of claim 22, wherein the contrast  
preprocessing function characterized by at least one of a GT, GA, GC, and GS  
preprocessing parameter.

24. (Original) The medical data network of claim 21, wherein the first  
preprocessing function is a frequency preprocessing function.

Application No. 09/473,003  
Attorney Docket No. 15-IS-5283 (12517US01)

25. (Original) The medical data network of claim 24, wherein the frequency preprocessing function characterized by at least one of a RN, RE, and RT preprocessing parameter.

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